DOCUMENT RESUME

ED 473 354 SE 067 434

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TITLE	About Teaching Mathematics: A K-8 Resource. Second Edition.
ISBN	ISBN-0-941355-25-X
PUB DATE	2000-00-00
NOTE	348p.
AVAILABLE FROM	Math Solutions Publications, Marilyn Burns Education Associates, 150 Gate 5 Road, Suite 101, Sausalito, CA 94965 ($24.95). Tel: 800-868-9092.
PUB TYPE	Books (010) -- Guides - Classroom - Teacher (052)
EDRS PRICE	Document Not Available From EDRS.
DESCRIPTORS	Arithmetic; Basic Skills; Curriculum Design; Elementary Secondary Education; *Lesson Plans; *Mathematics Activities; Mathematics Instruction; Problem Solving; Teaching Methods

ABSTRACT

This book helps teachers examine how children learn mathematics, develop a positive attitude toward and an interest in mathematics, teach mathematics with problem solving as the primary focus, understand the elements of a comprehensive mathematics curriculum, and establish a classroom environment that supports children's learning of mathematics. The book is organized into four main parts: (1) raising the issues that address topics basic to mathematics teaching; (2) problem-solving activities in with a sampler of explorations for each area of the mathematics curriculum; (3) teaching arithmetic to address the role of arithmetic in the mathematics curriculum with suggestions on how to teach arithmetic in a way that develops both understanding and skills; and (4) mathematical discussions that address the mathematical ideas and skills for 40 of the activities included in the book. Also included is a bibliography of books, articles, videotapes, and audiotapes as well as blackline masters needed for activities. (KHR)

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